

IN THE CLAIMS

1. (currently amended) In a controllable gastric band including a nonextensible back (4) and a first chamber (2) arranged to be on a stoma side of the back (4) for controlling stoma restriction by supplying and discharging liquid to and from the first chamber (2), the improvements in that

a second chamber (1) is provided on the stoma side of the back (4), the second chamber (1) communicating with the first chamber (2) in a manner to ~~ensure the control of~~ the stoma restriction by a displacement of the liquid between the first and second chambers.

2. (currently amended) In a controllable gastric band including a nonextensible back (4) and a first chamber (2) arranged to be on a stomach or esophagus side of the back (4) for controlling restriction of the stomach or esophagus by supplying and discharging liquid to and from the first chamber (2), the improvements in that

a second chamber (1) is provided on the stomach or esophagus side of the back (4), the second chamber (1) being a sensor for detection of a pressure increase in the stomach or esophagus, and

the first chamber (2) is connected via the second chamber (1) with a reservoir (9) in a manner to ~~ensure control of~~ the restriction by displacement of the liquid between the reservoir (9) and the first chamber (2) as a function of the detected pressure.

3. (currently amended) A gastric band according to claim 1, characterized in that the chambers (1, 2) are arranged one beside the other for the first chamber (2) to be located aborally.

4. (currently amended) A gastric band according to claim 3, characterized in that the second chamber (1) is subdivided into two communicating chambers delimiting the first chamber (2) on either side.

5. (currently amended) A gastric band according to claim 2, characterized in that the first chamber (2) and the second chamber (1) are arranged one above the other in respect to the stomach or esophagus for the second chamber (1) to be on the gastric wall (13).

6. (currently amended) A gastric band according to claim 5, characterized in that a layer (16) is provided between the chambers.

7. (currently amended) A gastric band according to claim 2, characterized in that a pumping device for pumping the liquid from the second chamber (1) or the reservoir (9) into the first chamber (2) and vice versa is provided.

8. (currently amended) A gastric band according to claim 7, characterized in that the pumping device is comprised of an electric pump (12).

9. (currently amended) A gastric band according to claim 7, characterized in that the pumping device is at least one of a mechanically driven pump or a lift-and-force pump (14).

10. (previously presented) A gastric band according to claim 1, characterized in that a detection device for detecting an eating activity is provided.

11. (previously presented) A gastric band according to claim 10, characterized in that the detection device is comprised of a device for detecting a deglutition activity.

12. (currently amended) A gastric band according to claim 10, characterized in that the detection device is comprised of a device for detecting the pressure prevailing at the gastric wall or wall (13) of the esophagus.

13. (currently amended) A gastric band according to claim 12, characterized in that a pressure sensor is provided in the second chamber (1) to detect the pressure prevailing at the gastric wall (13) or wall of the esophagus, said pressure sensor being connected with an electronic circuit (11).

14. (previously presented) A gastric band according to claim 10, characterized in that the detection device is comprised of a device for detecting a peristaltic wave.

15. (currently amended) A gastric band according to claim 7, characterized in that a detection device is connected with the pumping device in a manner that, after detecting an eating activity, the liquid is pumped from the second chamber (1) or reservoir (9) into the first chamber (2) and the liquid is again returned from the first chamber (2) into the second chamber (1) or reservoir (9) at a given time after the detecting of the eating activity has stopped.

16. (currently amended) A gastric band according to claim 1, characterized in that the communicating of the chambers (1, 2) comprises a connection with each other via an auxiliary chamber (3), wherein

a valve (5) between the second chamber (1) and the auxiliary chamber (3), the valve allows transport of the liquid only from the second chamber (1) to the auxiliary chamber (3), and

a further valve (6) between the auxiliary chamber (3) and the first chamber (2) allows transport of the liquid only from the auxiliary chamber (3) to the first chamber (2).

17. (currently amended) A gastric band according to claim 2, characterized in that an auxiliary chamber (3) functioning as an air chamber is arranged between the reservoir (9) and the first chamber (2).

18. (currently amended) A gastric band according to claim 2, characterized in that a device for carrying out a liquid exchange from the first chamber (2) to the second chamber (1) or reservoir (9), respectively, is provided between the first chamber (2) and the second chamber (1) or reservoir (9), respectively.

19. (currently amended) A gastric band according to claim 18, characterized in that the device for carrying out the liquid exchange is comprised of a common partition wall containing micropores and arranged between the chambers (1, 2) or between the first chamber (2) and the reservoir (9), respectively.

20. (currently amended) A gastric band according to claim 18, characterized in that the device for carrying out the liquid exchange is comprised of a backflow channel (17) arranged between the chambers (1, 2) or the first chamber (2) and the reservoir (9), respectively.

21. (currently amended) A gastric band according to claim 20, characterized in that a throttle valve (15) is arranged within the backflow channel (17).

22. (currently amended) A gastric band according to claim 2, characterized in that the first chamber (1) is connected to a stomach pacemaker or a device emitting electric pulses so as to obtain, via appropriately placed probes, a stimulation of the gastric wall by electric pulses as a function of the pressure prevailing in the stomach or esophagus and detected by the first chamber (1).

23. (currently amended) A gastric band according to claim 1, characterized in that a further liquid-filled chamber (18) is provided for the adaptation of the gastric band.

24. (currently amended) A gastric band according to claim 23, characterized in that said further chamber (18) is connected with a port (20) to be subcutaneously arranged in a manner that liquid can be filled into, or removed from, said chamber (18) by supplying or discharging liquid through said port (20).